

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P522742

Luminaire Tested: **GALN-SA4C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25927 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

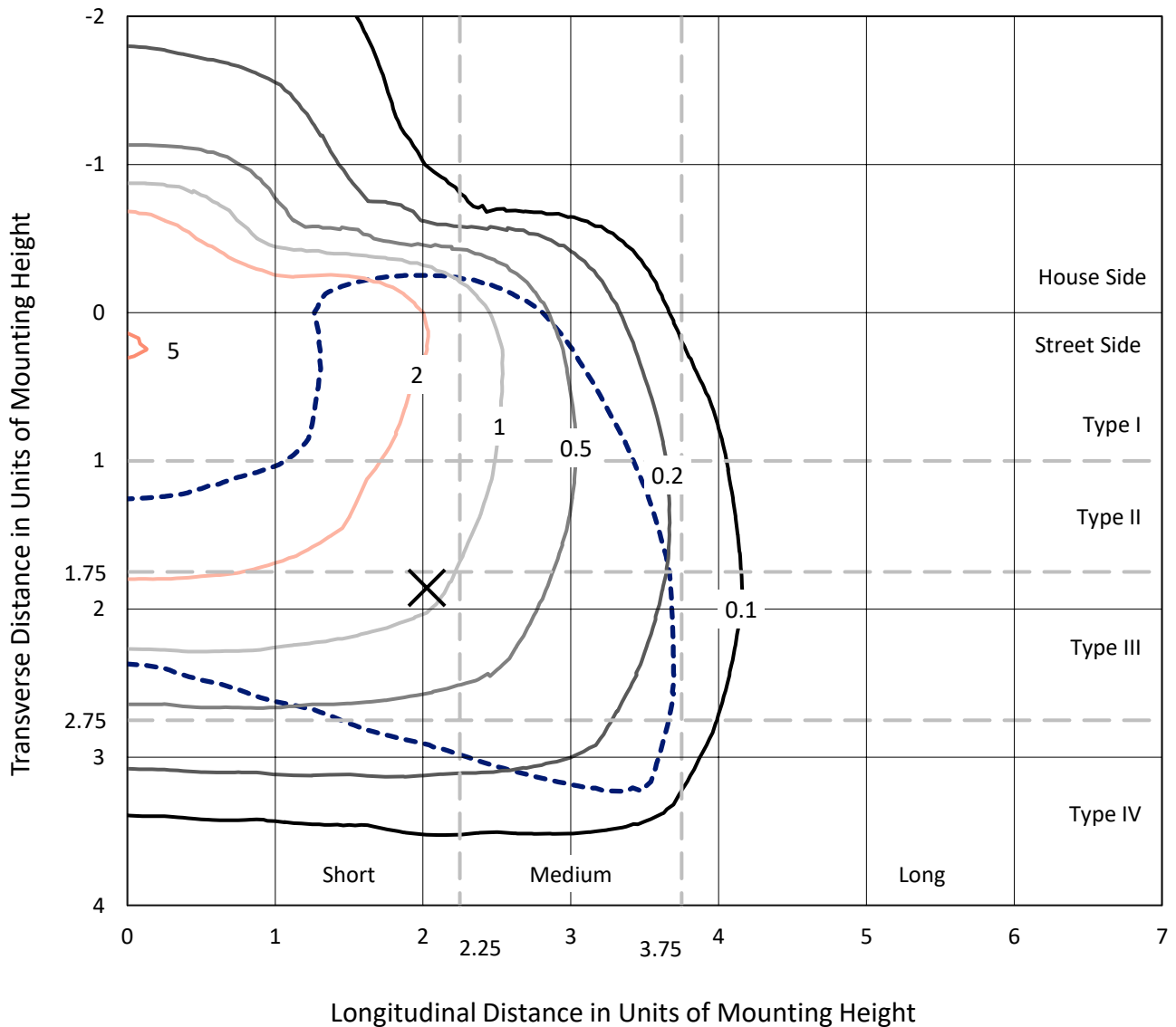
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

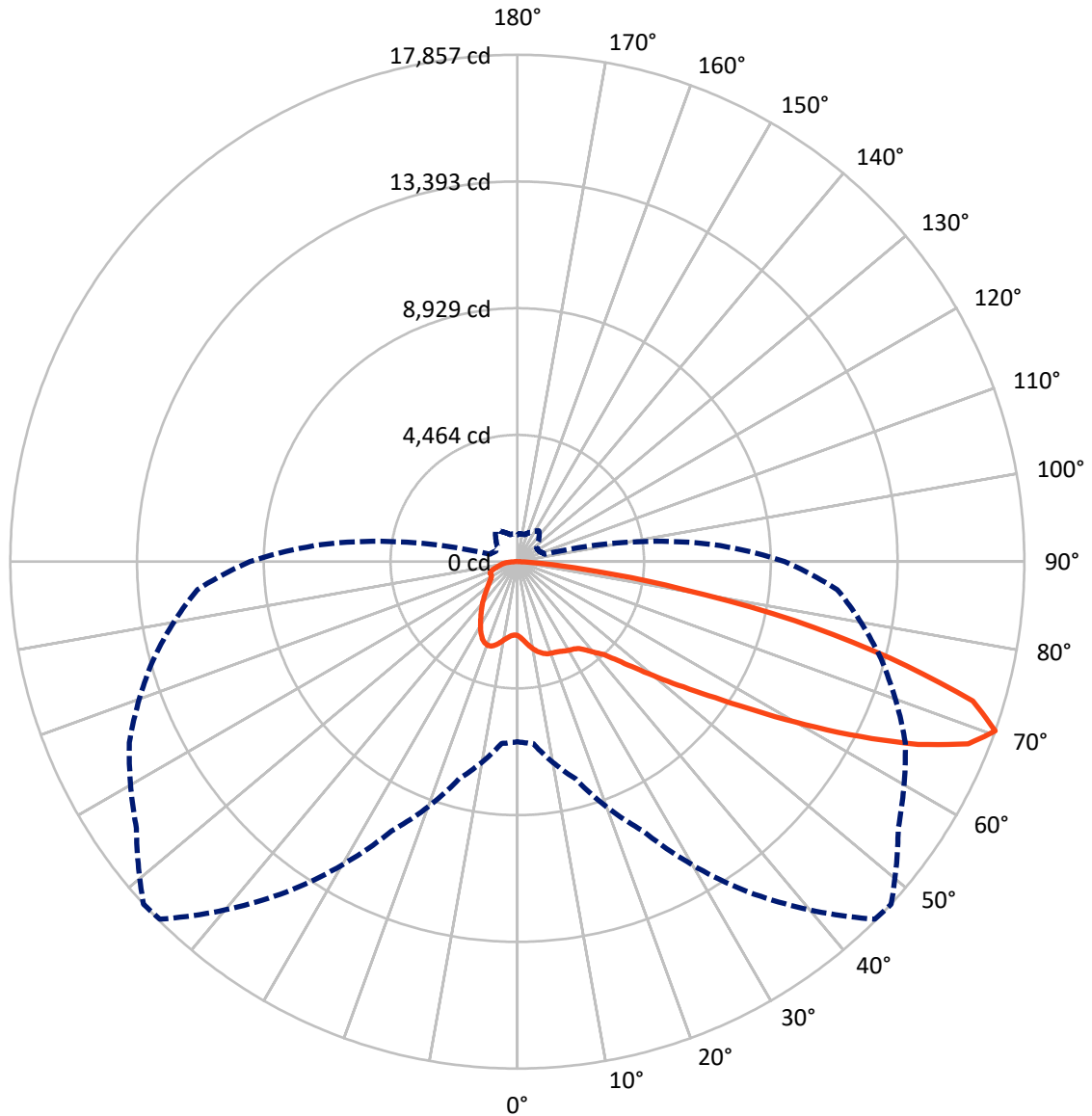
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5870.4	0.0	5870.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20056.6	0.0	20056.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	25927.0	0.0	25927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.0
10°-20°	896.9	3.5
20°-30°	1491.6	5.8
30°-40°	2114.1	8.2
40°-50°	3120.8	12.0
50°-60°	5405.4	20.8
60°-70°	7635.3	29.4
70°-80°	4389.2	16.9
80°-90°	605.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25927.0	100.0
0°-180°	25927.0	100.0

Coefficient of Utilization



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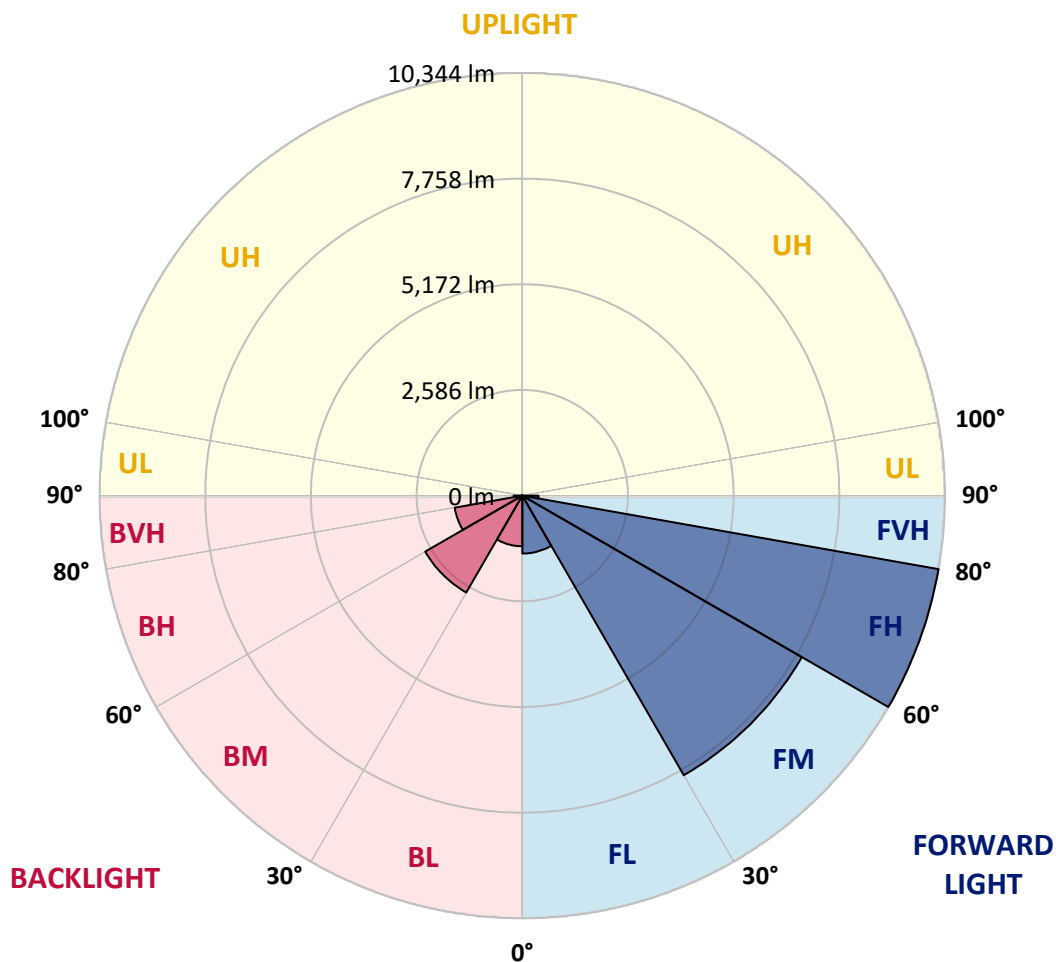
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.8	5.5			
FM	(30°-60°)	7899.5	30.5			
FH	(60°-80°)	10343.8	39.9			G4/12000
FVH	(80°-90°)	395.6	1.5			G3/500
BL	(0°-30°)	1239.0	4.8	B3/2500		
BM	(30°-60°)	2740.8	10.6	B3/5000		
BH	(60°-80°)	1680.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	210.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8
2.5°	2770.6	2760.9	2759.5	2738.7	2727.6	2706.8	2698.5	2679.1	2655.5	2631.9	2609.7
5°	2988.5	2988.5	2978.7	2949.6	2903.8	2856.7	2835.8	2798.4	2731.8	2677.7	2631.9
7.5°	3211.8	3214.6	3195.2	3152.2	3087.0	3010.7	2991.2	2935.7	2841.4	2762.3	2694.3
10°	3404.7	3404.7	3378.3	3320.0	3238.2	3154.9	3135.5	3073.1	2967.6	2869.1	2780.3
12.5°	3551.7	3551.7	3517.1	3440.7	3352.0	3277.0	3254.8	3195.2	3096.7	2987.1	2874.7
15°	3647.5	3640.5	3601.7	3515.7	3429.6	3364.4	3349.2	3299.2	3209.1	3098.1	2971.8
17.5°	3651.6	3648.9	3611.4	3539.3	3464.3	3419.9	3410.2	3376.9	3306.2	3200.7	3067.5
20°	3571.2	3576.7	3551.7	3500.4	3464.3	3444.9	3440.7	3429.6	3379.7	3281.2	3148.0
22.5°	3485.1	3494.9	3471.3	3443.5	3440.7	3460.2	3462.9	3465.7	3433.8	3338.1	3216.0
25°	3464.3	3471.3	3447.7	3422.7	3438.0	3489.3	3500.4	3511.5	3486.5	3406.1	3296.5
27.5°	3569.8	3564.2	3518.4	3464.3	3474.0	3543.4	3558.7	3571.2	3558.7	3489.3	3396.4
30°	3868.1	3850.0	3758.5	3600.3	3550.4	3598.9	3614.2	3648.9	3648.9	3597.5	3504.6
32.5°	4367.5	4332.8	4165.0	3854.2	3680.8	3651.6	3666.9	3723.8	3752.9	3712.7	3611.4
35°	4973.8	4937.7	4697.7	4280.1	3919.4	3757.1	3752.9	3816.7	3894.4	3804.2	3672.4
37.5°	5582.9	5545.4	5256.9	4787.9	4267.6	3979.1	3954.1	3976.3	4009.6	3844.5	3757.1
40°	6192.0	6147.6	5895.1	5355.4	4693.6	4273.2	4208.0	4108.1	4094.2	3976.3	3920.8
42.5°	6795.5	6755.2	6627.6	5992.2	5204.1	4560.4	4460.5	4288.4	4341.2	4270.4	4221.9
45°	7404.5	7407.3	7271.4	6706.7	5820.1	5090.4	4955.8	4686.6	4811.5	4785.1	4812.9
47.5°	7944.2	7937.3	7888.7	7400.4	6584.6	5773.0	5599.5	5287.4	5501.0	5598.2	5810.4
50°	8467.3	8463.1	8465.9	8187.0	7472.5	6584.6	6393.1	6065.7	6547.1	6884.3	7264.4
52.5°	9216.5	9240.1	9072.2	8998.7	8551.9	7543.3	7332.4	6993.9	7783.3	8314.7	9056.9
55°	9968.5	9949.0	9817.2	9893.5	9681.3	8678.2	8457.6	8188.4	9159.6	9740.9	10856.4
57.5°	10411.0	10418.0	10552.5	10925.8	11075.6	10093.3	9893.5	9685.4	10706.6	11118.6	12457.4
60°	10809.2	10841.1	11228.2	11933.0	12339.5	11831.7	11654.1	11451.6	12125.9	12289.6	13847.6
62.5°	10934.1	11032.6	11708.3	12762.7	13571.5	13793.5	13572.9	13126.2	13477.2	13413.4	14789.7
65°	10311.1	10445.7	11656.9	13073.5	14671.7	15655.4	15515.3	14685.6	14628.7	14244.4	14943.7
67.5°	8671.2	8805.8	10361.1	12421.4	15126.8	17267.6	17127.4	15823.3	15328.0	14322.1	13778.3
70°	6344.6	6429.2	7916.5	10458.2	14212.5	17808.6	17857.2	16378.2	15078.2	13266.3	11312.8
72.5°	3655.8	3843.1	4885.0	7357.4	11611.1	16440.7	16777.8	15223.9	13499.4	11067.3	7909.6
75°	1571.9	1576.1	2258.7	4058.1	7863.8	13215.0	13541.0	12619.8	10601.1	7652.9	4223.2
77.5°	747.8	761.7	993.4	1811.9	4328.7	9130.5	10010.1	8915.4	6780.2	3676.6	1595.5
80°	485.6	495.3	607.7	899.0	2122.7	5294.3	5907.5	5143.1	2991.2	1313.9	688.1
82.5°	294.1	296.9	406.5	549.4	1168.2	2397.4	2826.1	2232.3	1276.4	786.7	405.1
85°	179.0	180.4	247.0	339.9	709.0	828.3	850.5	843.5	749.2	514.7	216.4
87.5°	86.0	88.8	127.6	160.9	278.9	256.7	242.8	281.6	353.8	277.5	93.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8	2602.8
2.5°	2600.0	2595.8	2586.1	2581.9	2579.2	2580.6	2579.2	2579.2	2580.6	2580.6	2580.6
5°	2612.5	2605.5	2590.3	2590.3	2598.6	2618.0	2636.1	2649.9	2665.2	2663.8	2663.8
7.5°	2666.6	2654.1	2636.1	2641.6	2662.4	2692.9	2724.8	2755.4	2785.9	2788.7	2787.3
10°	2745.7	2733.2	2713.8	2720.7	2754.0	2799.8	2840.0	2884.4	2917.7	2927.4	2924.6
12.5°	2835.8	2810.9	2794.2	2813.6	2866.4	2927.4	2966.3	2999.6	3023.1	3037.0	3031.5
15°	2927.4	2903.8	2884.4	2924.6	2988.5	3045.3	3064.8	3070.3	3074.5	3088.3	3085.6
17.5°	3016.2	2984.3	2977.4	3030.1	3091.1	3116.1	3105.0	3081.4	3063.4	3074.5	3073.1
20°	3095.3	3070.3	3067.5	3120.3	3143.8	3120.3	3073.1	3031.5	2999.6	3002.3	3000.9
22.5°	3170.2	3150.8	3153.6	3175.8	3138.3	3057.8	2980.1	2923.2	2888.6	2895.5	2899.7
25°	3253.4	3234.0	3241.0	3204.9	3081.4	2941.3	2828.9	2780.3	2766.5	2780.3	2790.1
27.5°	3361.7	3349.2	3345.0	3206.3	2980.1	2769.2	2641.6	2623.6	2636.1	2666.6	2681.8
30°	3478.2	3478.2	3456.0	3182.7	2841.4	2562.5	2451.5	2454.3	2497.3	2540.3	2555.6
32.5°	3590.6	3614.2	3544.8	3118.9	2662.4	2361.4	2276.7	2279.5	2317.0	2369.7	2383.5
35°	3683.5	3751.5	3621.1	3002.3	2451.5	2192.1	2128.3	2090.8	2092.2	2132.4	2143.5
37.5°	3811.2	3937.4	3665.5	2828.9	2226.8	2047.8	1975.7	1910.4	1867.4	1850.8	1850.8
40°	4033.2	4219.1	3676.6	2572.2	2014.5	1910.4	1807.8	1730.1	1646.8	1571.9	1558.0
42.5°	4409.2	4643.6	3654.4	2276.7	1823.0	1759.2	1659.3	1563.6	1448.4	1343.0	1334.7
45°	5075.1	5195.8	3594.7	1970.1	1652.4	1613.5	1516.4	1412.4	1290.3	1195.9	1189.0
47.5°	6142.0	5971.4	3515.7	1698.2	1497.0	1485.9	1411.0	1290.3	1168.2	1103.0	1096.0
50°	7700.1	7192.3	3504.6	1501.2	1372.1	1377.7	1316.6	1205.6	1098.8	1044.7	1036.4
52.5°	9575.8	8667.1	3578.1	1362.4	1262.5	1283.3	1252.8	1150.2	1055.8	1010.0	1001.7
55°	11396.1	9993.4	3622.5	1254.2	1159.9	1198.7	1202.9	1116.9	1030.8	985.1	979.5
57.5°	12873.7	10992.4	3425.5	1155.7	1071.1	1130.7	1161.3	1097.4	1018.4	983.7	978.1
60°	13901.7	11464.1	2865.0	1068.3	1005.9	1076.6	1146.0	1098.8	1048.9	1053.0	1055.8
62.5°	14229.2	11254.6	2149.1	1003.1	961.5	1058.6	1171.0	1155.7	1104.4	1136.3	1141.8
65°	13686.7	10388.8	1558.0	951.8	922.6	1071.1	1245.9	1197.3	1084.9	1108.5	1108.5
67.5°	11870.6	8950.1	1212.6	904.6	878.2	1094.7	1320.8	1193.2	1039.2	1066.9	1041.9
70°	9416.3	6923.1	1010.0	851.9	831.1	1060.0	1327.7	1150.2	985.1	990.6	943.4
72.5°	6248.8	4552.1	868.5	801.9	758.9	953.1	1270.9	1094.7	932.3	900.4	853.2
75°	3062.0	2269.8	757.5	739.5	664.6	829.7	1193.2	1041.9	875.4	825.5	799.1
77.5°	1186.2	965.6	646.5	660.4	578.5	731.2	1090.5	967.0	800.5	732.5	711.7
80°	575.8	548.0	530.0	550.8	475.9	622.9	996.2	901.8	731.2	656.2	625.7
82.5°	357.9	338.5	406.5	428.7	366.3	568.8	944.8	846.3	643.8	543.9	518.9
85°	181.7	194.2	271.9	292.7	262.2	452.3	778.3	635.4	464.8	385.7	388.5
87.5°	69.4	93.0	142.9	154.0	140.1	238.6	428.7	370.4	298.3	202.6	187.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)